

Title (en)

Method and device for performing channel estimation and equalization for an optical OFDM signal

Title (de)

Verfahren und Vorrichtung zum Durchführen der Kanaleinschätzung und Ausgleichen für ein optisches OFDM-Signal

Title (fr)

Procédé et dispositif pour réaliser l'évaluation et l'égalisation de canal d'un signal OFDM optique

Publication

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Application

EP 12177863 A 20120725

Priority

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Abstract (en)

[origin: EP2690812A1] The invention relates to an optical receiver (102) adapted for receiving via a transmission channel an orthogonal frequency-division multiplex optical signal via a plurality of subcarriers. The optical receiver comprises means for performing channel estimation (150) and means for performing equalization (126) on the basis of coefficients representative of the transmission channel, said coefficients being provided by said means for performing channel estimation. The means for performing channel estimation comprise: means for processing a training sequence (151, 152, 153) received via a first subset among said plurality of subcarriers; and means for interpolating coefficients (160), the interpolated coefficients corresponding to subcarriers not processed by said means for processing the training sequence.

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